

AMENDMENTS TO THE CLAIMS:

Claims 1, 2, 19, 20 and 24 are canceled without prejudice or disclaimer. Claims 48-78 are added. The following is the status of the claims of the above-captioned application, as amended.

Claims 1-47 (Canceled).

Claim 48 (New). An isolated TY145 like subtilase having an amino acid sequence which is at least 90% homologous to SEQ ID NO: 1, comprising the overall subtilisin fold and the following structural characteristics:

- a) a twisted beta-sheet with 7 strands,
- b) six alpha helices,
- c) at least three ion-binding sites,

wherein the strong ion-binding site of the BPN' like subtilases is not present.

Claim 49 (New). The TY145 like subtilase of claim 48, which has an amino acid sequence which is at least at least 91% homologous to SEQ ID NO: 1.

Claim 50 (New). The TY145 like subtilase of claim 48, which has an amino acid sequence which is at least 92% homologous to SEQ ID NO: 1.

Claim 51 (New). The TY145 like subtilase of claim 48, which has an amino acid sequence which is at least 93% homologous to SEQ ID NO: 1.

Claim 52 (New). The TY145 like subtilase of claim 48, which has an amino acid sequence which is at least 94% homologous to SEQ ID NO: 1.

Claim 53 (New). The TY145 like subtilase of claim 48, which has an amino acid sequence which is at least 95% homologous to SEQ ID NO: 1.

Claim 54 (New). The TY145 like subtilase of claim 48, which has an amino acid sequence which is at least 96% homologous to SEQ ID NO: 1.

Claim 55 (New). The TY145 like subtilase of claim 48, which has an amino acid sequence which is at least 97% homologous to SEQ ID NO: 1.

Claim 56 (New). The TY145 like subtilase of claim 48, which has an amino acid sequence which is at least 98% homologous to SEQ ID NO: 1.

Claim 57 (New). The TY145 like subtilase of claim 48, which has an amino acid sequence which is at least 99% homologous to SEQ ID NO: 1.

Claim 58 (New). A detergent composition comprising a TY145 like subtilase of claim 48 and a surfactant.

Claim 59 (New). A variant TY145 like subtilase comprising an alteration at one or more positions selected from the group consisting of:

1, 2, 3, 4, 5, 6, 7, 16, 17, 18, 19, 20, 21, 22, 23, 31, 35, 36, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 84, 65, 66, 67, 68, 69, 70, 71, 72, 73, 79, 80, 81, 84, 85, 86, 87, 88, 89, 90, 91, 92, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 193, 198, 199, 200, 201, 202, 204, 207, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 239, 240, 241, 242, 243, 247, 248, 249, 250, 251, 252, 254, 265, 266, 268, 269, 270, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306 and 307;

wherein the variant has protease activity and has an amino acid sequence which is at least 90% homologous to SEQ ID NO: 1 and each position corresponds to a position of the amino acid sequence shown in SEQ ID NO: 1.

Claim 60 (New). The variant TY145 like subtilase of claim 59, which has an amino acid sequence which is at least at least 91% homologous to SEQ ID NO: 1.

Claim 61 (New). The variant TY145 like subtilase of claim 59, which has an amino acid sequence which is at least 92% homologous to SEQ ID NO: 1.

Claim 62 (New). The variant TY145 like subtilase of claim 59, which has an amino acid sequence which is at least 93% homologous to SEQ ID NO: 1.

Claim 63 (New). The variant TY145 like subtilase of claim 59, which has an amino acid sequence which is at least 94% homologous to SEQ ID NO: 1.

Claim 64 (New). The variant TY145 like subtilase of claim 59, which has an amino acid sequence which is at least 95% homologous to SEQ ID NO: 1.

Claim 65 (New). The variant TY145 like subtilase of claim 59, which has an amino acid sequence which is at least 96% homologous to SEQ ID NO: 1.

Claim 66 (New). The variant TY145 like subtilase of claim 59, which has an amino acid sequence which is at least 97% homologous to SEQ ID NO: 1.

Claim 67 (New). The variant TY145 like subtilase of claim 59, which has an amino acid sequence which is at least 98% homologous to SEQ ID NO: 1.

Claim 68 (New). The variant TY145 like subtilase of claim 59, which has an amino acid sequence which is at least 99% homologous to SEQ ID NO: 1.

Claim 69 (New). The variant TY145 like subtilase of claim 59, which comprises one or more of the substitutions selected from the group consisting of I220S,T,D,E; T215S,D,E; G298A,S,T,D,E; G296A,S,T,D,E; V185T,D,E; and I221N,D,T,E.

Claim 70 (New). The variant TY145 like subtilase of claim 59, which comprises one or more modifications selected from the group consisting of G26C+A95C; A167C+T254C; R203C+G292C; and V228C+A284C.

Claim 71 (New). The variant TY145 like subtilase of claim 59, which comprises D116H,K,R.

Claim 72 (New). The variant TY145 like subtilase of claim 59, which comprises Q18P, D115P, V185P, T269P and I293P.

Claim 73 (New). The variant TY145 like subtilase of claim 59, which comprises an alteration at one or positions selected from the group consisting of 40-73 and 140-161

Claim 74 (New). The variant TY145 like subtilase of claim 59, which comprises an alteration at one or positions selected from the group consisting of 65-73 and 140-150.

Claim 75 (New). The variant TY145 like subtilase of claim 59, which comprises an alteration at one or more positions selected from the group consisting of 35, 36, 70, 72, 106, 109, 110, 111, 112, 113, 114, 117, 139, 140, 141, 142, 143, 144, 145, 147, 150, 167, 168, 169, 170, 171, 172, 173, 174, 177, 180, 207, 239, 247, 248, 249, 250, 251 and 252.

Claim 76 (New). The variant TY145 like subtilase of claim 59, which comprises an alteration at one or more positions selected from the group consisting of V31, V38, T79, V80, L81, V188, and T254.

Claim 77 (New). The variant TY145 like subtilase of claim 59, which comprises V31I, T79S and/or V80A.

Claim 78 (New). A detergent composition comprising a variant TY145 like subtilase of claim 59 and a surfactant.